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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/691,002	10/22/2003	Laurie B. Gower	UF-304XC2	5666	
23557	7590 03/16/2006			EXAMINER	
	HIK LLOYD & SAL	NAFF, DAVID M			
A PROFESSIONAL ASSOCIATION PO BOX 142950			ART UNIT	PAPER NUMBER	
	LE, FL 32614-2950		1651		
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DATE MAILED: 03/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)		
	10/691,002	GOWER ET AL.		
Office Action Summary	Examiner	Art Unit		
	David M. Naff	1651		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timular apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>22 Oct</u> This action is FINAL . 2b) ☐ This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
 4) Claim(s) 1-76 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-76 are subject to restriction and/or example. 	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to by the Examiner 11) The oath or declaration is objected to by the Examiner 12. **The Specification** 13. **The Specification** 14. **The Specification** 15. **The Specification** 16. **The Specification** 16. **The Specification** 17. **The Specification** 18. **The Specification** 19. **The Specification** 19. **The Specification** 10. **The Specification** 10. **The Specification** 11. **The Specification** 11. **The Specification** 12. **The Specification** 13. **The Specification** 14. **The Specification** 15. **The Specification** 16. **The Specification** 17. **The Specification** 17. **The Specification** 18. **The Specification** 19. **The Specification** 19. **The Specification** 19. **The Specification** 19. **The Specification** 10. **The Specification** 11. **The Specification** 11. **The Specification** 11. **The Specification** 12. **The Specification** 13. **The Specification** 14. **The Specification** 15. **The Specification** 16. **The Specification** 16. **The Specification** 17. **The Specifi	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	nte		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO) Other:				

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Election/Restrictions

Claims in the application are 1-76.

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-39, drawn to an organic/inorganic composite comprising an organic fluid-swellable, fibrous matrix and on and absorbed within the matrix an inorganic mineral phase in the form of a liquid phase mineral precursor, classified in class 435, subclass 395.
- II. Claims 40-61, drawn to a process for making an organic/inorganic composites comprising contacting an acidic polymer with a mineralizing solution to form an inorganic liquid-phase mineral precursor, and contacting the precursor with an organic fluid swellable, fibrous matrix where the precursor is absorbed into the matrix and hardens, and to resultant composite, classified in class 435, subclass 176.
- III. Claims 62-76, drawn to a method for treating a bone defect by applying the organic/inorganic composite to the site of the bone defect, classified in class 424, subclass 423.

The inventions are distinct, each from the other because:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP

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§ 806.05(f)). In the instant case, the composite of invention I can be made by a process different than required by invention II. The precursor of the composite of invention I can be made without contacting an acidic polymer with a mineralizing solution as required by the process of invention II to produce the mineral precursor. The mineral precursor can be prepared simply by forming a solution of mineral without the acidic polymer.

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the composite of invention I can be used other than to treat a bone defect as required by invention III. The composite can be used to culture cells in vitro to produce tissue or other product the cells are capable of producing. Additionally, the composite can be used to treat a defect other than a bone defect such as a cartilage defect or a skin defect.

Inventions II and III are distinct since the composite used in the method of invention III can be made by a method other than required by invention II for reasons set forth above in setting forth the distinctness of inventions I and II. Additionally, the composite resulting from the method of invention II can have a use other than treating a bone defect as required by the method of invention III for

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reasons above in setting forth the distinctness of inventions I and III.

Examining inventions I-III together will be a serious burden because of different searches and considerations for applying prior art required due to differences in scope and steps and/or components of the claims of the different inventions.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission

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may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b), " 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply

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where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M. Naff Primary Examiner Art Unit 1651

DMN 3/14/06